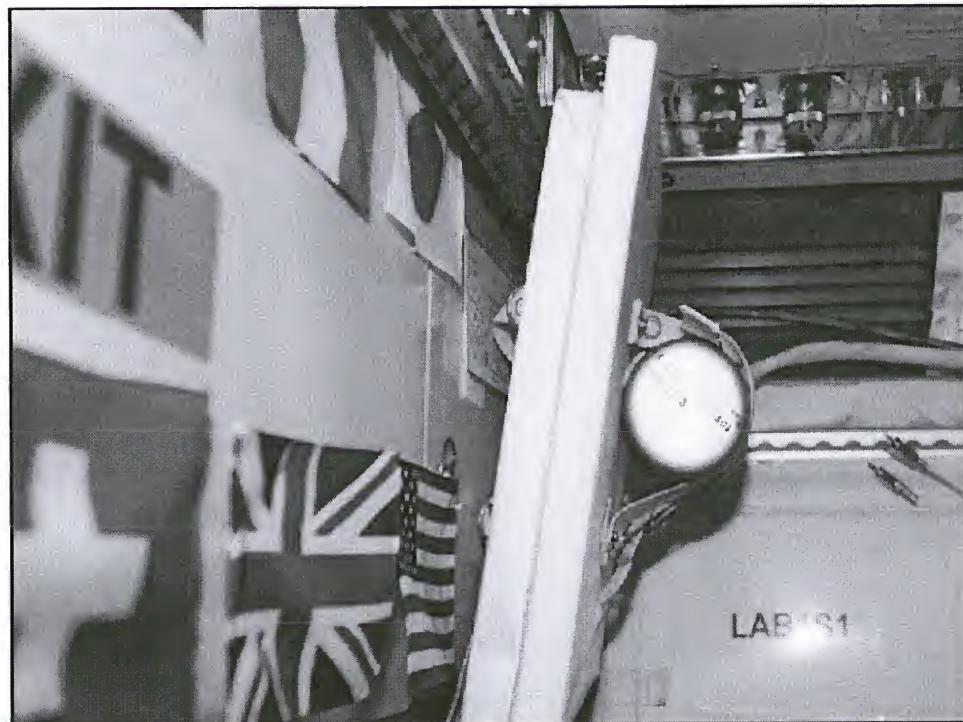


# Overview and Results of ISS Space Medicine Operations Team (SMOT) Activities

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## Educational Objectives

- The audience will receive an in-depth overview of the multilateral operational management of medically relevant issues that occur in the course of long-duration ISS missions.
  - Familiarization with the ISS international Space Medicine Operations Team (SMOT)
  - Understanding of SMOT scope and function based on the analysis of SMOT records
  - Understanding of the SMOT's role in the ISS mission medical status and mission medical readiness review process

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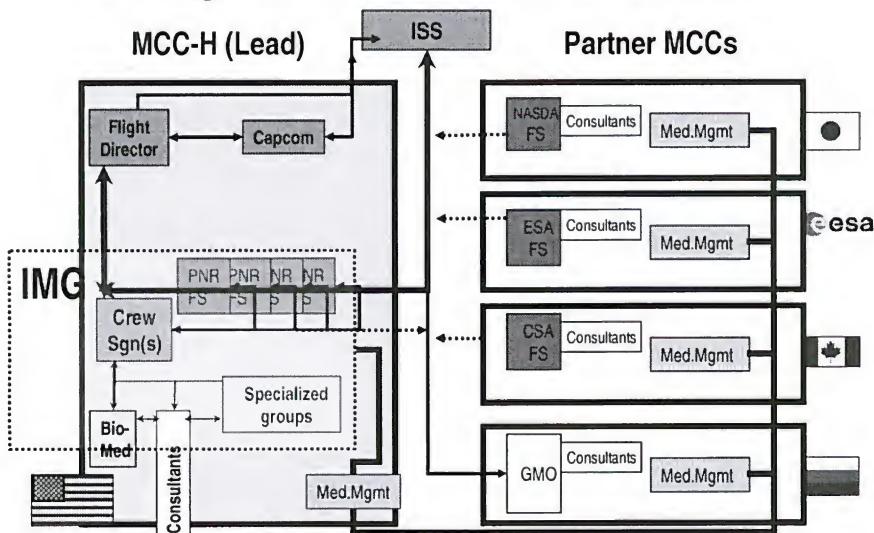
## SMOT Purpose

- ISS Medical Operations integration
- Equal awareness of all Partners
- Emergency response capability / management
- Operational input from all Partners for medically relevant concerns
- Source of medical input to the ISS Mission Management

## Nominal SMOT

- A weekly international forum for unrestricted exchange of information among medical personnel on:
  - ISS crew health
  - Results of medical monitoring - objective data obtained by the ISS Integrated Medical Group (IMG)
  - Environmental monitoring data including Radiation
  - Status of the ISS Integrated Medical System (IMS) subsystems and components
  - Medically relevant aspects of ISS operations
  - Any concerns related to crew health and safety, and operational medical support

## Integration of All Partners



# SMOT Participation

MEETING#324

ISS-14

MISSION MEDICAL SUPPORT STATUS

March 1, 2007 (Thursday)

(07:00 AM Central Time, 08:00 AM Eastern Time, 16:00 Moscow Time)

Expected participants:

JSC/ NASA	M. Duncan (Chair), T. Taddeo, J.D. Polk, D. Alexander (ISS-14 Crew Surgeon), G. Chamberlain (ISS-14 Deputy Crew Surgeon), S. Hart, V. Pukarev (IBMP), Y. Kobzev (GCTC/FSA), W. Sipes, A. Sargsyan, K. Parker, K. Mathes
IBMP/ FSA	V. Bogomolov
GCTC/FSA	V. Pochuev, V. Matveev
MCC-M/ FSA	I. Alferova, E. Khorosheva
ESA	F. Castrucci, J. Straube, R. Kuyumjian, J. Phelan (at JSC)
CSA	J.M. Comeau, G. Gray
JAXA	K. Shimada (at JSC)

Official Interpreter At JSC

# SMOT Agenda

- Permanent Agenda Items:
  - 1. Results of in-flight medical evaluations
  - 2. ISS environmental parameters
    - Including radiation environment and accumulated radiation doses
  - 3. State of exercise hardware
  - 4. IMG reports
    - A. Crew health
    - B. Any new concerns
  - 5. Once per month - Look-Ahead Readiness Review of upcoming medical activities and ISS events. The SMOT members also become aware of schedules and potential issues the medical community might be facing. There is also a retrospective component of the Look-Ahead RR.

## SMOT Agenda – Sample

#	Item	Presenter	Duration
1	Greetings, introductions	Duncan / Bogomolov	5 min
2	ISS-14 Joint Medical Operation Report, crew health-related updates and issues - IMG at MCC-H	Alexander (ISS-14 CS), Chamberlain (ISS-14 DCS), Kobzev (Russian FS), Hart (NASA FS)	10 min
3	ISS-14 Joint Medical Operational Report – IMG at MCC-M	Alferova (GMO)	5 min
4	Poll for Continuation of the Mission	Duncan	5 min
5	Recent / Current Operational Issues and Updates	As appropriate	10 min
6	Closing comments and adjourn Future meetings: Thursday, March 8 (nominal time) Thursday, March 15 (nominal time)	Bogomolov / Duncan	5 min

## SMOT Contents - Actual

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## SMOT Products

- Summary from each weekly meeting
- Input for the ISS Integrated Mission Management Team (IMMT) as necessary
- For serious concerns, other products, statements, or recommendations as appropriate

## SMOT Statistics

- 332 meetings by teleconference
- Configuration
- Average interval between teleconferences; average duration
- Average number of attendees
- Number of ImedS concerns discussed
- Number of Environmental concerns discussed
- Number of countermeasures aspects discussed

## SMOT in Off-nominal Situations

- ISS medical concerns
- ISS environmental concerns
- ISS medical capability concerns
- STS-107 accident
- Hurricanes (Texas Gulf Coast)

## Place in the ISS Mission Medical Readiness Review Process

- Once per month – “Look-Ahead” Readiness Review of upcoming medical activities and important ISS events.
- Proactive approach to IMS maintenance
- Proactive approach to foreseeable health-related problems

## To Recapitulate

- SMOT is a weekly private teleconference but can be called at any time if necessary
- Crew health and well-being status / issues are discussed in unrestricted (open) fashion
- Status / problems are stated for hardware, procedural matters, environmental status, crew work/rest schedule, data transfer, and any other issues
- SMOT includes medical management of all ISS partners
- SMOT generates operational medical input for the ISS Program (ISS Mission Management Team (MMT))